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ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS



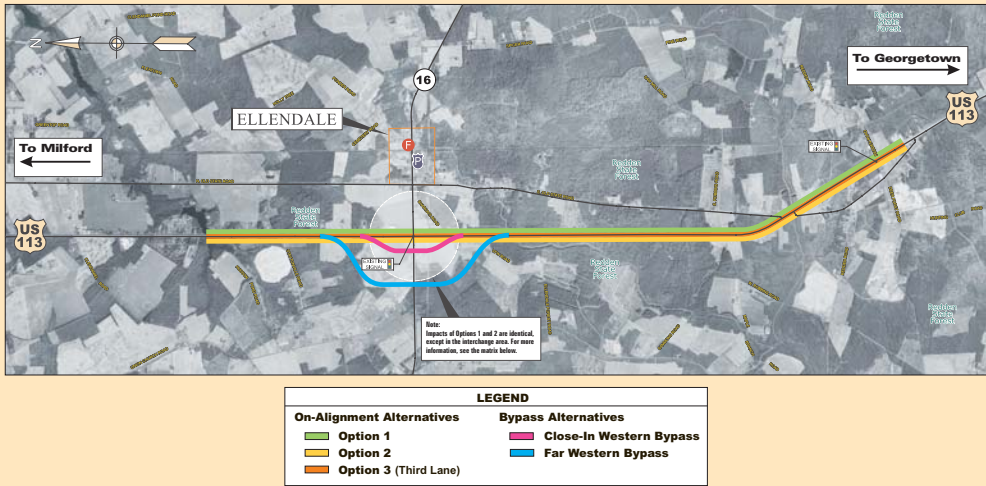
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113

US 113 North / South Study



Ellendale Area Alternatives



Working Group Recommendations

ON-ALIGNMENT ALTERNATIVES

- The Working Group was unanimous in recommending to DeIDOT that On-Alignment Option 1 be retained for detailed study.
- The Working Group was unanimous in recommending to DeIDOT that On-Alignment Option 2 NOT be retained for further consideration.
- The Working Group was unanimous in recommending to DeIDOT that BOTH the SR 40 - Redden Road overpass and the SR 565 - Redden/Deer Forest Road overpass be retained for detailed study.
- The Working Group unanimously recommended to DeIDOT that the third lane option NOT be retained for further consideration.

WEST ALTERNATIVES

- The Working Group was unanimous in recommending to DeIDOT that the far western bypass alternative be retained for detailed study.
- The Working Group was unanimous in recommending to DeIDOT that the closer in western bypass alternative NOT be retained for further consideration.

Impact Comparison Of Preliminary Alternatives

Environmental

Considerations	No Build	Option 1	Option 2	Option 3 (Third Lane)	Close-In Western Bypass	Far Western Bypass
Consideration of Wetlands and Waters of the US Required by Section 401 of the Clean Water Act and Delaware State Law. Regulatory Agencies: US Army, Corps of Engineers and Delaware Department of Natural Resources and Environmental Control (DNREC)						
Wetlands (acres)		3	3	1	13	41
Waters of the US (linear feet)		1,016	1,016	1,358	4,028	5,558
Consideration of Historic and Archeological Resources Required by Section 106 of the National Historic Preservation Act. Regulatory Agency: Delaware State Historic Preservation Office						
Number of Known Historic Buildings, Structures, Objects, and Districts	0	1	1	0	0	2
Number of Known Archeological Sites	0	0	0	0	0	0
Number of Potentially Historic Findings, Structures, Objects, and Districts - currently being evaluated	0	30	30	9	30	38
Number of Potentially Significant Archeological Sites - currently being evaluated	0	6	6	0	7	7
Number of Cemeteries (Historic and Non-Historic)	0	0	0	0	0	0
Consideration of Section 4(f) Properties Required by Section 4(f) of the Department of Transportation Act of 1966. Regulatory Agency: US Department of Transportation						
Number of Publicly-Owned Parks and Recreation Areas	0	1	1	1	1	1
Number of Publicly-Owned Wildlife and Waterfowl Refuges	NONE	NONE	NONE	NONE	NONE	NONE
Number of Historic Properties - same as Number of Known Historic Buildings, Structures, Objects and Districts (above)	0	1	1	0	0	2
Consideration of Section 6(f) Properties Required by Section 6(f) of the Land and Water Conservation Fund Act. Regulatory Agency: US Department of Interior.						
Properties purchased by Land & Water Conservation Fund (LWCF) (number)	NONE	NONE	NONE	NONE	NONE	NONE
Area (acres)	0	0	0	0	0	0
Consideration of Rare, Threatened and Endangered Species Required by Endangered Species Act. Regulatory Agencies: US Fish & Wildlife Service and Delaware Department of Natural Resources and Environmental Control (DNREC)						
Potential Rare, Threatened and Endangered Species Areas (acres)	0	TBD	TBD	TBD	TBD	TBD
Other Considerations To be considered under general provisions of the National Environmental Policy Act (NEPA)						
Agricultural Districts (Ten-Year) (number of properties)	0	0	0	0	2	2
Acres within properties)	0	0	0	0	3	3
Agricultural Preservation Easements (Permanent) (number of properties)	0	0	0	0	0	0
Acres within properties)	0	0	0	0	0	0
Forestand: 2002 Land Use (acres)	0	5	5	0	17	20
State Forest Lands	0	3	3	0	11	11

* with Road 40 over 113 option add 4 properties effected
* with Road 565 over 113 option add 2 properties effected

Engineering

Considerations	No Build	Option 1	Option 2	Option 3 (Third Lane)	Close-In Western Bypass	Far Western Bypass
Existing US 113 Length (linear feet, miles)	7 Miles	7 Miles	7 Miles	7 Miles	7 Miles	7 Miles
Proposed US 113 (On-Alignment) Length (linear feet, miles)	N/A	N/A	N/A	N/A	1.32 Miles	2.47 Miles
(Distance of alignment submitted for funding approval)						
Existing US 113 Converted to Service Roads (linear feet, miles)		11,056' 2.09 Miles	11,456' 2.17 Miles	N/A	13,136' ~ 2.5 Miles	13,376' ~ 2.53 Miles
Total Length of Alternative		7 Miles	7 Miles	7 Miles	7.07 Miles	7.49 Miles
Improves Safety (Y/N)						
Length (linear feet, miles)						
Interchange(s)						
Number		2	2	1	2	2
1 Location(s)		US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway
Type		Overpass	Partial Cloverleaf	Partial Cloverleaf	Modified Diamond	Modified Diamond
2 Location(s)		US 113 / Sussex Road 213, Old State Road / McCollays Chapel Road	US 113 / Sussex Road 213, Old State Road / McCollays Chapel Road		US 113 / Sussex Road 213, Old State Road / McCollays Chapel Road	US 113 / Sussex Road 213, Old State Road / McCollays Chapel Road
Type		Right-in / Right-out	Right-in / Right-out		Right-in / Right-out	Right-in / Right-out
Overpasses(s)						
Number		2	2	N/A	2	3
1 Location(s)		US 113 / Sussex Road 224, Staytonville Road / Flattown Road	US 113 / Sussex Road 224, Staytonville Road / Flattown Road		US 113 / Sussex Road 224, Staytonville Road / Flattown Road	US 113 / Sussex Road 224, Staytonville Road / Flattown Road
2 Location(s)		US 113 / Sussex Road 565, Robb Road / Deer Forest Road	US 113 / Sussex Road 565, Robb Road / Deer Forest Road		US 113 / Sussex Road 565, Robb Road / Deer Forest Road	US 113 / Sussex Road 607 VFW Road
3 Location(s)						US 113 / Sussex Road 565, Redden Road / Deer Forest Road
Right-On, Right-Off						
Number		2	2	N/A	2	2
1 Location(s)		US 113 / Sussex Road 623, Hudson Pond Road, SB	US 113 / Sussex Road 623, Hudson Pond Road, SB		US 113 / Sussex Road 623, Hudson Pond Road, SB	US 113 / Sussex Road 623, Hudson Pond Road, SB
2 Location(s)		US 113 / Sussex Road 579, Robbins Road, SB	US 113 / Sussex Road 579, Robbins Road, SB		US 113 / Sussex Road 579, Robbins Road, SB	US 113 / Sussex Road 579, Robbins Road, SB
Properties (numbers of total acres)						
Properties Effected (numbers of total acres)		80'	74'	22	69'	75'
Access Rights (numbers of affected properties)		55	55	10	50	52
Denial of Access (numbers of)		30	26	10	25	29
Residential		26	24	5	23	26
Agricultural		2	2	0	2	3
Commercial		2	0	5	0	0
Industrial		0	0	0	0	0
Modified Access (numbers of)						
Residential						
Agricultural						
Commercial						
Industrial						